Amendments to the Claims:

- (Cancelled)
- (Previously Presented) A recombinant expression cassette comprising the polynucleotide of claim 12 operably linked to a promoter.
- (Currently Amended) A host cell comprising the recombinant expression eassette polynucleotide of claim 2 12.
- (Currently Amended) A transgenic plant comprising the recombinant as expression cassette polynucleotide of claim 2 12.
- 5. (Original) The transgenic plant of claim 4, wherein said plant is a monocot.
- 6. (Original) The transgenic plant of claim 4, wherein said plant is a dicot.
- 7. (Previously Presented) The transgenic plant of claim 4, wherein said plant is selected from the group consisting of maize, soybean, sunflower, sorghum, canola, wheat, alfalfa, cotton, rice, barley, and millet.
- (Currently Amended) A transgenic seed from the transgenic plant of claim 4,
 wherein the seed comprises the recombinant expression-cassette
 polynucleotide.
- (Currently Amended) A method of modulating the level of RAD51C in a plant, comprising:

- introducing into a plant cell a recombinant expression cassette comprising the polynucleotide of claim 42 25 operably linked to a promoter;
- (b) culturing the plant cell under plant cell growing conditions;
- regenerating a whole plant which possesses the transformed genotype; and
- (d) expressing said polynucleotide for a time sufficient to modulate the level of RAD51C in said plant.
- 10. (Previously Presented) The method of claim 9, wherein the plant is selected from the group consisting of maize, soybean, sunflower, sorghum, canola, wheat, alfalfa, cotton, rice, barley, and millet.
- 11. (Cancelled)
- 12. (Currently amended) An isolated polynucleotide selected from the group consisting of:
 - (a) a the nucleic acid sequence having at least 90% sequence identity over the entire length of SEQ ID NO: 1, as determined by the GAP program under default-parameters, wherein said sequence encodes a polypeptide involved in DNA double strand break repair; and
 - (b) a nucleic acid sequence which is fully complementary to the nucleic acid sequence of (a).

13-24. (Cancelled)

25. (Currently Amended) An isolated polynucleotide comprising a member selected from the group consisting of:

- (a) a nucleic acid sequence encoding a polypeptide having at least-90% sequence identity over the entire-length of SEQ ID NO: 2, as determined by the GAP algorithm under default parameters, wherein the encoded polypeptide involved in DNA double strand break-repair; and
- (b) a nucleic acid sequence which is fully complementary to the nucleic acid sequence of (a).

26-27. (Cancelled)

- (Previously Presented) A recombinant expression cassette comprising the polynucleotide of claim 25 operably linked to a promoter.
- (Currently Amended) A host cell comprising the recombinant expression cassette polynucleotide of claim 28 25.
- 30. (Currently Amended) A transgenic plant comprising the recombinant expression cassette polynucleotide of claim 28 25.
- 31. (Previously Presented) The transgenic plant of claim 30, wherein said plant is a monocot.
- 32. (Previously Presented) The transgenic plant of claim 30, wherein said plant is a dicot.
- 33. (Previously Presented) The transgenic plant of claim 30, wherein said plant is selected from the group consisting of maize, soybean, sunflower, sorghum, canola, wheat, alfalfa, cotton, rice, barley, and millet.

- 34. (Currently Amended) A transgenic seed from the plant of claim 30, wherein the seed comprises the recombinant expression cassette polynucleotide.
- 35. (Cancelled)